

AMENDMENTS TO THE CLAIMS

Claims 1-16 (cancelled)

Claim 17 (currently amended): A semiconductor device including a plurality of chips, the chips having front surfaces and back surfaces, the device comprising:

a support attached to the chips on the back surfaces thereof, the chips being arranged on the support in a planar horizontal structure with a previously formed filling between the chips;

a first layer having a first surface and an opposing second surface, the first layer being disposed on the front surfaces of the chips, the first surface being in contact with the front surfaces of the chips so that the chips separate the first layer from the support, the first layer and having a plurality of vias formed therein and conducting pads in registration with the vias;

a plurality of studs corresponding to the vias and disposed therein; and

a second layer attached to the first layer on a the second surface of the first layer opposite the front surfaces of the chips, the second layer being formed of a solid dielectric material and having conducting pads thereon in registration with the vias aligned to the first layer by the studs in the vias, the second layer including electrical wiring connecting to the chips through the studs and the conducting pads, at least a portion of the electrical wiring running within the second layer from one conducting pad to another conducting pad for making electrical connection between the chips,

wherein said plurality of chips includes chips with active devices and a chip without active devices.

Claim 18 (original): A semiconductor device according to claim 17, further comprising an attachment layer between the support and the chips, wherein the attachment layer has a plurality of support connection vias formed therein, support connection pads in registration with the support connection vias, and a plurality of support connection studs disposed in the support connection vias and connected to the support connection pads.

Claim 19 (original): A semiconductor device according to claim 17, wherein the chip without active devices has passive components fabricated thereon.

Claim 20 (original): A semiconductor device according to claim 17, wherein the chip without active devices has a size according to a placement pattern of the chips with active devices.